

## ABSTRACT

A color image processing apparatus performs color image display using a red display, green display, blue display and white display. The apparatus includes a white signal generation circuit generating a white signal  $W$  based on an input red signal  $R_{in}$  for the red display, an input green signal  $G_{in}$  for the green display, and an input blue signal  $B_{in}$  for the blue display, a yellow signal generation circuit generating a yellow signal  $Y_e$ , based on the input red signal  $R_{in}$ , the input green signal  $G_{in}$ , and the generated white signal  $W$ , and a first output white signal generation circuit generating a first output white signal  $W_{out}^{(1)}$  for the white display, based on the generated white signal  $W$  and the generated yellow signal  $Y_e$ .